

ABSTRACT

650 The present invention relates to a polymerizable macromers for applications
in medicine and biotechnology and synthesis thereof. Macromers comprises
polyvalent various carbohydrates including *N*-Acetyl Glucosamine(NAG)
which bind more efficiently to lysozyme than NAG itself. Effective inhibition
of lysozyme is possible even at very low ligand concentrations. The
655 polymerizable macromer could be used for prevention and treatment of
bacterial and viral infections. Moreover these macromers can be
copolymerized with other comonomers to form stimuli sensitive polymers
and used for the recovery of biomolecules. The methodology can be
extended to other ligands such as sialic acid and used for preventing
660 influenza and / or rotavirus infections.

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